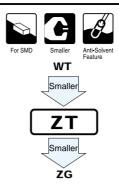
ALUMINUM ELECTROLYTIC CAPACITORS

4.5mmL Chip Type, Wide Temperature Range series

- ◆ Chip type with 4.5mm height, operating over wide temperature range of -40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

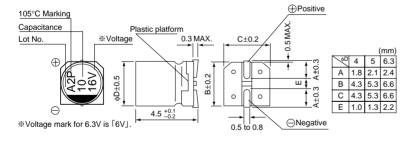




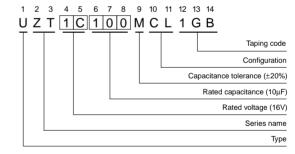
■ Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 100μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (µA), whichever is greater.										
	Measurement frequency : 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V) 6.3 10			16	25			50			
	tan δ (MAX.)	0.38	0.32		0.20	0.10	0.1	4	0.14		
	Measurement frequency : 120Hz										
Stability at Low Temperature	Rated voltage (V)			6.3	10	16		35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+20°C		6	5	3	3	3	3		
	ZT / Z20 (MAX.)	Z-40°C / 2	Z+20°C	10	10	6	6	4	4		
	The specifications	Γ	Capacitance Within ±25% of the initial capacitance value (16V or less)								
Endurance	met when the capa		change Within ±20% of the initial capacitance value (25V or more)								
Endurance	20°C after the rated voltage is applied for				tan δ 300% or less than initial specified value						
	1000 hours at 105	C.		L	Leakage o	current	Less than or	equal to th	e initial spec	cified value	
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
	The capacitors are			ich	Capacitance change Within ±10% of the initial capacitance value						
Resistance to soldering	is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are					İ	tan δ		Less than or equal to the initial specified value		
heat	removed from the				hey are	İ	Leakage cu	Leakage current Less than or equal to the initial spe			
Marking	Black print on the	case top.									

■Chip Type



Type numbering system (Example : $16V 10\mu F$)



■Dimensions

	V	6	.3	1	0	1	6	2	25	3	5	5	0
Cap. (µF)	Code	0	IJ	1.	A	1	С	1	E	1	V	1	Н
0.1	0R1		 									4	0.9
0.22	R22		i		İ		İ		i		1	4	2.2
0.33	R33		!		!		!		!		!	4	2.8
0.47	R47		i									4	3.3
1	010		!		!		!				ļ	4	5.4
2.2	2R2											4	9.6
3.3	3R3		i		i I		i I		i		i	4	12
4.7	4R7		İ					4	11	4	13	5	16
10	100				İ	4	16	5	20	5	22	6.3	26
22	220	4	19	5	24	5	26	6.3	33	6.3	36		
33	330	5	26	5	30	6.3	35	6.3	42				
47	470	5	32	6.3	40	6.3	44		!		!		
100	101	6.3	52		 		 		i			Case size	Rated ripple

Rated ripple current (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UX(p.158), UJ(p.164) series if high C/V products are reqired.
- products are reqired.Please refer to page 3 for the minimum order quantity.